

CLAIMS

What is claimed is:

- 5 1. A photosensor control unit for use in a lighting module, the photosensor control unit comprising:
 - a plurality of LEDs adapted to be mounted in the lighting module, the plurality of
LEDs being configured to produce light having wavelengths within a first
range of wavelengths, wherein the first range of wavelengths is within the
10 visible light spectrum;
 - a light sensor adapted to be mounted in the lighting module adjacent the plurality of
LEDs, the light sensor being responsive to light having wavelengths within a
second range of wavelengths, wherein the second range of wavelengths is
exclusive of the first range of wavelengths; and
 - 15 a switch adapted to operably control the plurality of LEDs responsive to the light
sensor, whereby the plurality of LEDs emit light having wavelengths within
the first range of wavelengths responsive to the presence or absence of light
within the second range of wavelengths.

2. The photosensor control unit of claim 1 wherein the plurality of LEDs direct light in a first direction, and wherein the light sensor is positioned to receive light from a second direction, the second direction being substantially opposite the first direction.

5 3. The photosensor control unit of claim 2 further comprising a lens adapted to be positioned over the light sensor so that a portion of the lens functions to optically focus the light sensor to receive light from the second direction.

4. The photosensor control unit of claim 2 wherein the light sensor and the plurality of LEDs
10 are mounted in a housing having an inner surface extending to a perimeter.

5. The photosensor control unit of claim 4 wherein the housing includes a downwardly extending sidewall extending downwardly from the perimeter, the downwardly extending sidewall functioning to shield the light sensor so that it receives light primarily from the
15 second direction.

6. The photosensor control unit of claim 1 wherein the plurality of LEDs are mounted on a first surface of a circuit board.

7. The photosensor control unit of claim 6 wherein a second surface of the circuit board
5 includes a thermally conductive layer.

8. The photosensor control unit of claim 7 wherein the thermally conductive layer abuts the inner surface of the housing for conducting heat from the plurality of LEDs to the housing.

9. A lighting module comprising:

a housing having an inner surface;

a circuit board having a first surface and a second surface, the circuit board being adapted to be mounted adjacent the inner surface of the housing;

5 a plurality of LEDs mounted on the first surface of the circuit board, the plurality of LEDs being configured to produce light having wavelengths within a first range of wavelengths, wherein the first range of wavelengths is within the visible light spectrum;

a light sensor adapted to be mounted adjacent the plurality of LEDs, the light sensor
10 being responsive to light having wavelengths within a second range of wavelengths, wherein the second range of wavelengths is exclusive of the first range of wavelengths; and

a switch adapted to be operably connected to the plurality of LEDs and operably controlled by the light sensor, whereby the plurality of LEDs emit light having
15 wavelengths within the first range of wavelengths responsive to the presence or absence of light within the second range of wavelengths.

10. The lighting module of claim 9 wherein the plurality of LEDs direct light in a first direction, and wherein the light sensor is positioned to receive light from a second direction, the second direction being substantially opposite the first direction.

5 11. The lighting module of claim 10 further comprising a lens adapted to be positioned over the light sensor so that a portion of the lens functions to optically focus the light sensor to receive light from the second direction.

12. The lighting module of claim 10 wherein the light sensor and the plurality of LEDs are
10 mounted in a housing having an inner surface extending to a perimeter.

13. The lighting module of claim 12 wherein the housing includes a downwardly extending sidewall extending downwardly from a perimeter of the inner surface of the housing, the downwardly extending sidewall functioning to shield the light sensor so that it receives light
15 primarily from the second direction.

14. The lighting module of claim 9 wherein the light sensor is mounted on the first surface of the circuit board, adjacent the plurality of LEDs.

15. The lighting module of claim 14 wherein the second surface of the circuit board includes a thermally conductive layer.

16. The lighting module of claim 15 wherein the thermally conductive layer abuts the inner
5 surface of the housing for conducting heat from the plurality of LEDs to the housing.